SOLID EDGE
VELOCITY SERIES

Tutorial: ***Roller***

Project: ***Roadroller (Synchronous)***

cad / cam / pdm / cae | CAAP®

Solution Partner PLM | SIEMENS

AMERICAN PROJECTION	SCALE : 2:1	AUTHOR : Ruben	CAAP Hamersweldseweg 65 3833 GL Leusden +31(0)33-4573322 www.caap.nl
	DIMENSION UNITS : MM	CLASS (DEPARTMENT) : -	
	DATE : 22-8-2011	CHECKED BY : -	

MATERIAL : Steel	TITEL :	NUMBER :	REV:	SIZE:
PROJECT: Roadroller	Roller	1001	A	A4

1	1. Start **Solid Edge.** 2. Click on **<u>ISO Part.</u>** 	
2	1. Click the **Circle by Center Point** button. 2. Point at the **Origin** and wait until the icon appears before clicking.	
3	3. Click for the diameter.	

4	If the **Circle by Centre Point** is still active. 1. Point at the **Origin** and wait until the icon appears before clicking. 2. Click for the diameter. Make sure this circle is smaller than the previous one.	
5	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	
6	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown. 4. Click the **Extrude – Symmetric** button.	

7	5. Type **40** and confirm with **Enter**.	
8	1. Click the **Smart Dimension** button. 2. Click on the smallest circle. 3. Click to place the dimension.	
9	4. Key in the value **10** and confirm with **Enter**.	

10	If the **Smart Dimension** is still active. 5. Click on the outer circle. 6. Click to place the dimension.	
11	7. Key in the value **25** and confirm with **Enter**.	
12	1. Click the **Chamfer Equal Setbacks** button.	

13	2. Select the edges, as shown. 3. Key in a value for the chamfer (in this case **2**) and confirm with **Enter**.	
14	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table** button.	
15	1. Choose the material **Steel**. 2. Click **Apply to Model** to set the material to the part. ***Hint:*** *There are several properties which are connected to a material, like color and density. The density is necessary to determine the weight.*	

16	The part is ready. Now it must be saved. 1. First press **Ctrl + i** to turn the image to isometric view. 2. Click on the floppy icon. 3. Go to the **Summary** tab**.** 4. Fill in *Roller* at Title. 5. Go to the **Project** tab and fill in the following properties: Document Number*: 1001*. Revision Number*: A*. Project Name: *Roadroller*. 6. Click **OK** to close the screen. ***Hint:*** *All properties of the part are saved at the **File Properties**. These properties will used to fill in a part list.*	
17	1. Create a folder named *Roadroller*. 2. Save the document by name *Roadroller-1001-Roller-A.par*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*	